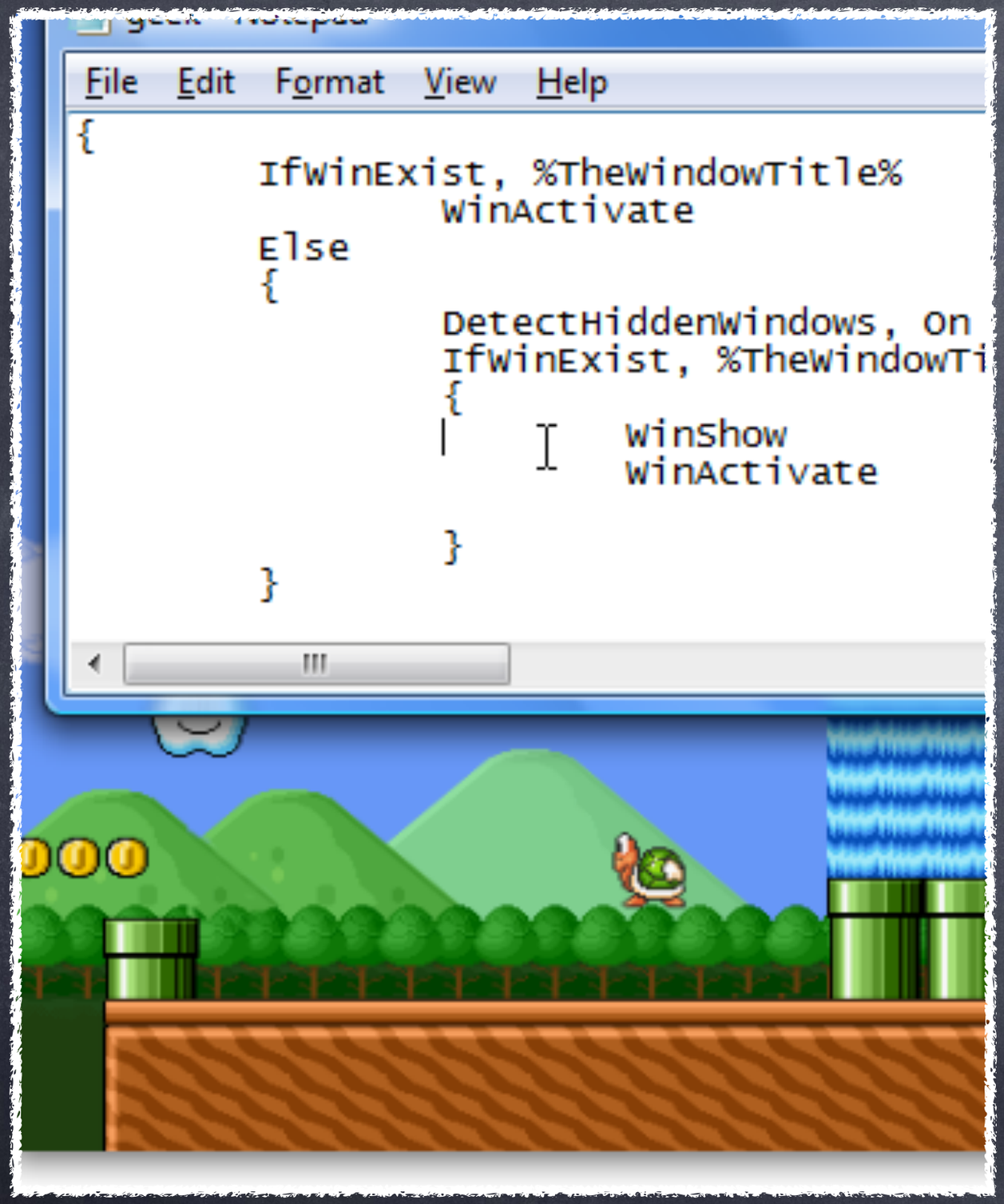
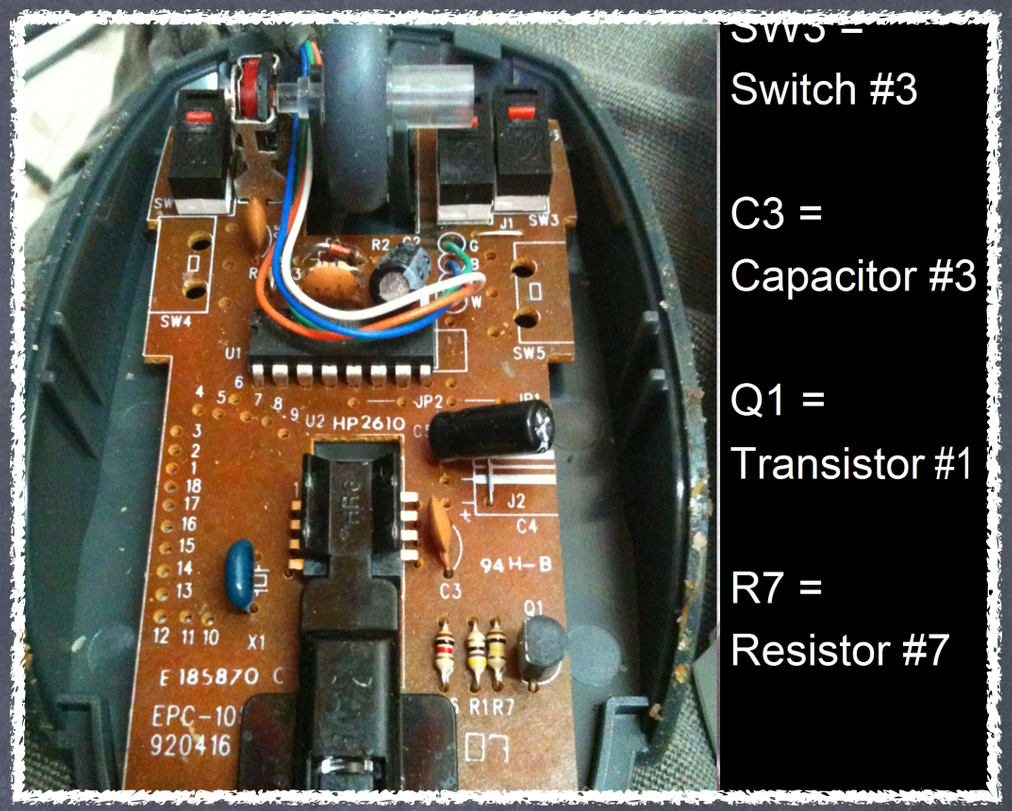
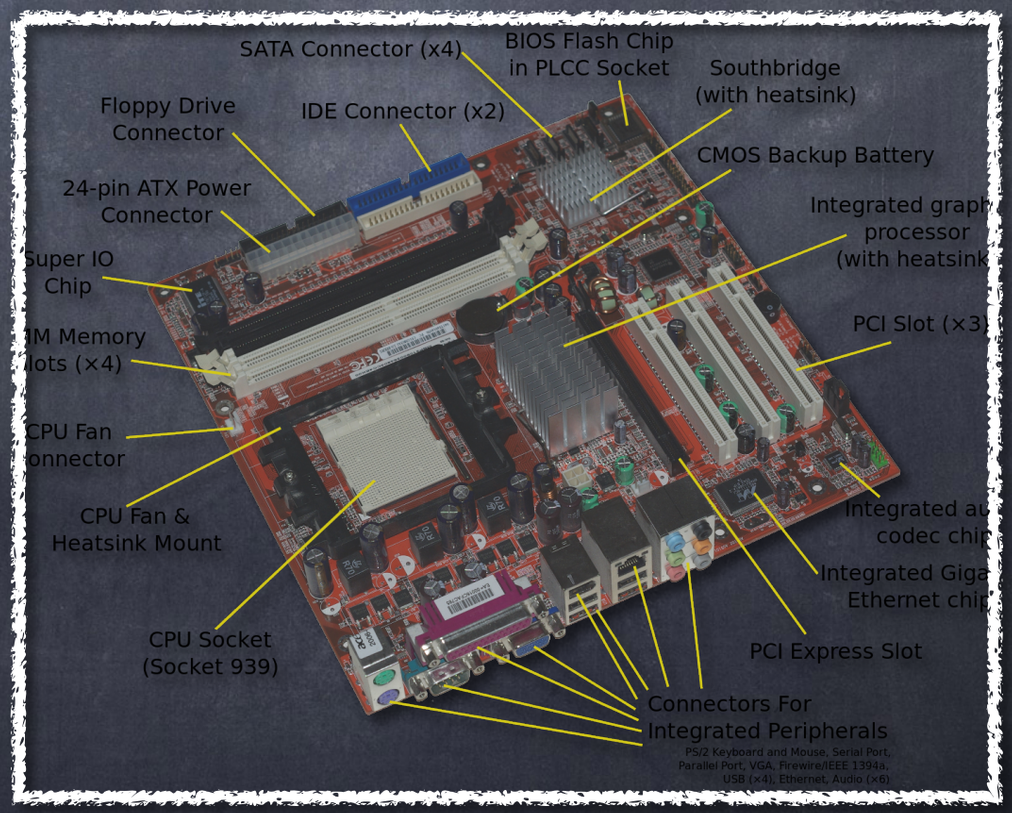
How to Babycastles

by: Syed Salahuddin


File Edit Format View Help
{
IfWinExist, %TheWindowTitle%
WinActivate
Else
{
DetectHiddenWindows, On
IfWinExist, %TheWindowTi
{
WinShow
WinActivate
}
}


SW3 =
Switch #3
C3 =
Capacitor #3
Q1 =
Transistor #1
R7 =
Resistor #7


SATA Connector (x4)
BIOS Flash Chip in PLCC Socket
Southbridge (with heatsink)
Floppy Drive Connector
IDE Connector (x2)
CMOS Backup Battery
24-pin ATX Power Connector
Integrated graph processor (with heatsink
Super IO Chip
PCI Slot (×3)
M Memory lots (×4)
CPU Fan onnector
CPU Fan & Heatsink Mount
Integrated au codec chip
Integrated Giga Ethernet chip
CPU Socket (Socket 939)
PCI Express Slot
Connectors For Integrated Peripherals
PS/2 Keyboard and Mouse, Serial Port, Parallel Port, VGA, Firewire/IEEE 1394a, USB (x4), Ethernet, Audio (x6)

Topics Covered

- Some Background
- Building a Computer
- Setting up Windows (XP/7/8.1)
- Virus Writing Software (Autohotkey) / JoyToKey
- Hardware hacking and making Buttons
- Aesthetics and Q/A
- Triage / troubleshooting

MAME

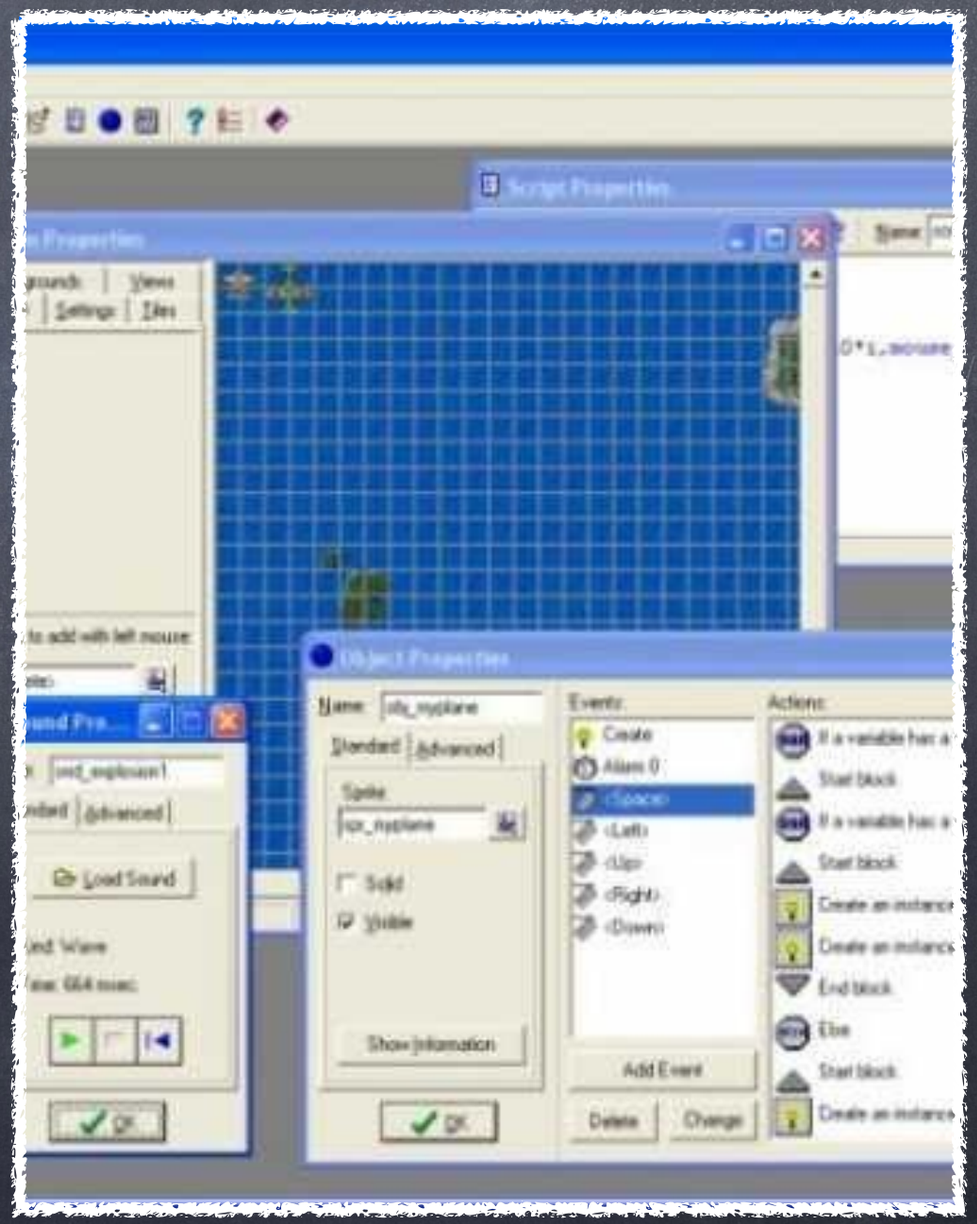
we dont use it, i wont talk about it

What is a Babycastle

and how do you do you do it?

It's about Games and People

- People are Making Games
- People are unpredictable and so are their games
- Independent games are not rigorously checked for Quality Assurance.
- They are usually experimental and the developers lack the time and resources to fix them



Challenges

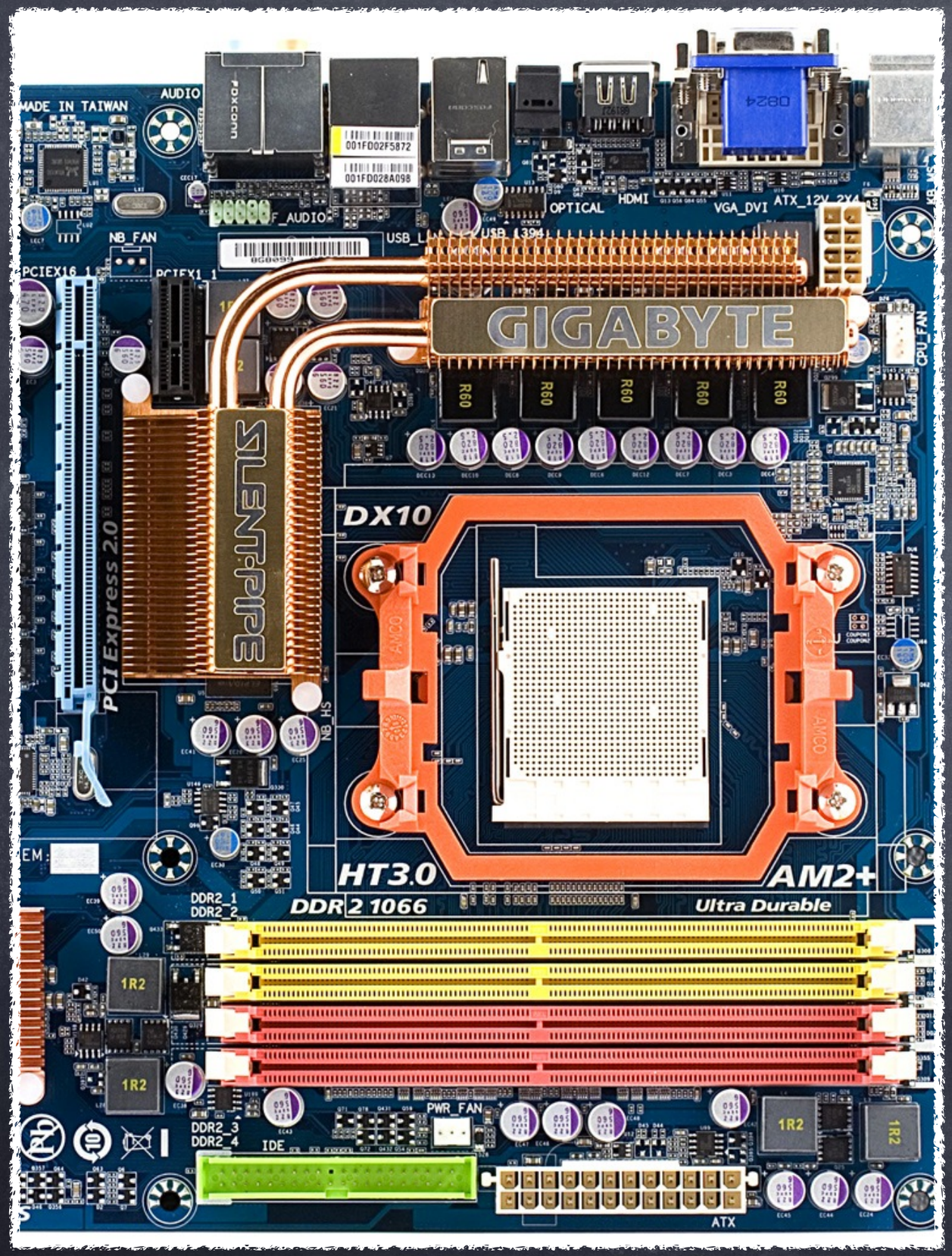
- All games are not created Equal
- Games break
- People break Games
- Getting a game to run should be as easy as pressing a button

All the parts of an arcade

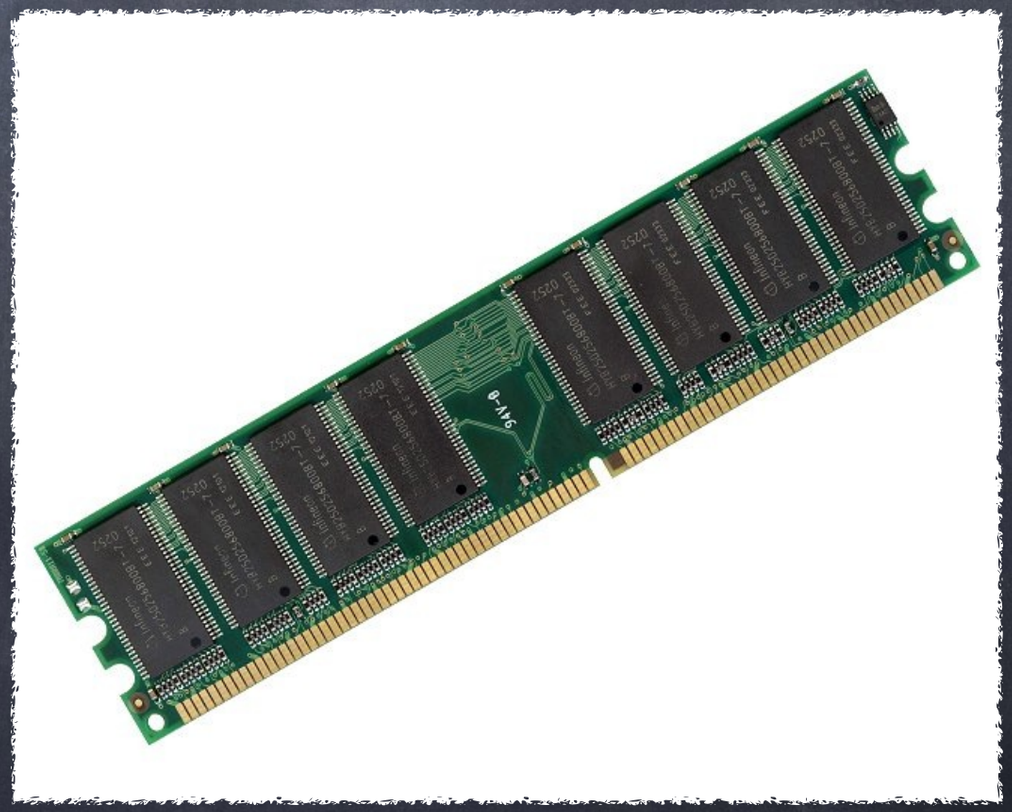
- Game (get permission from the artist to show it!)
- Computer and Screen. (with cords)
- Controllers (or something similar)
- Speakers
- Mouse and Keyboard
- Thumb drive with said game and installation software
- Cabinet

THE PC

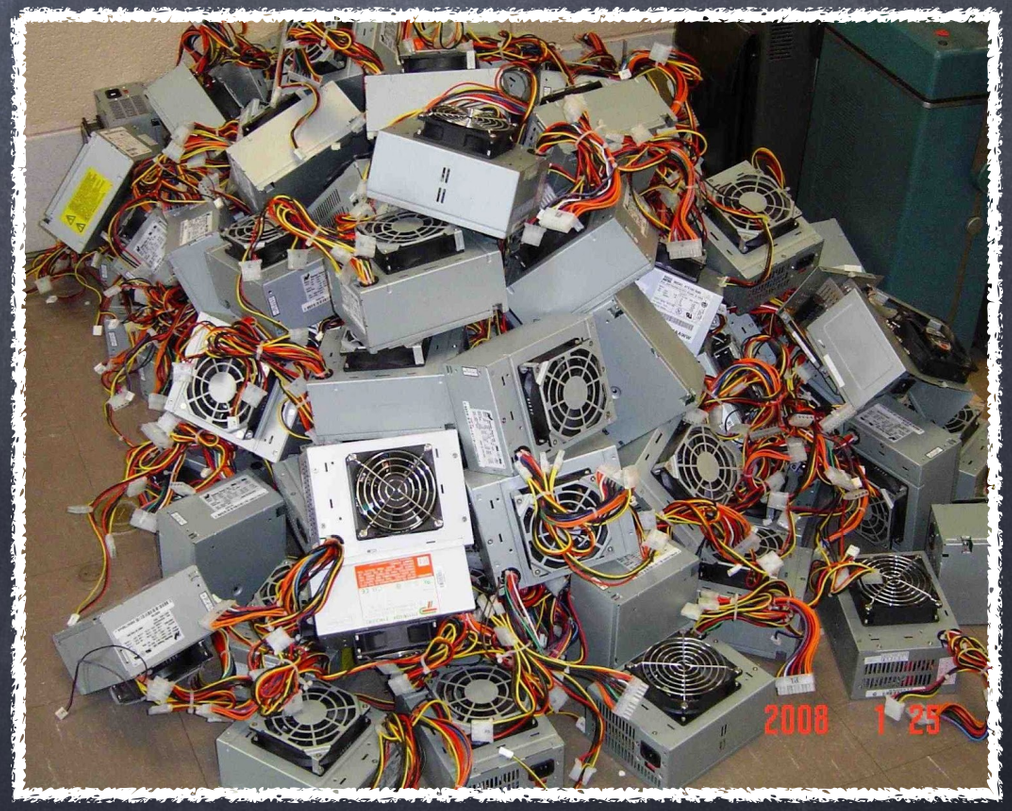
How to build your own

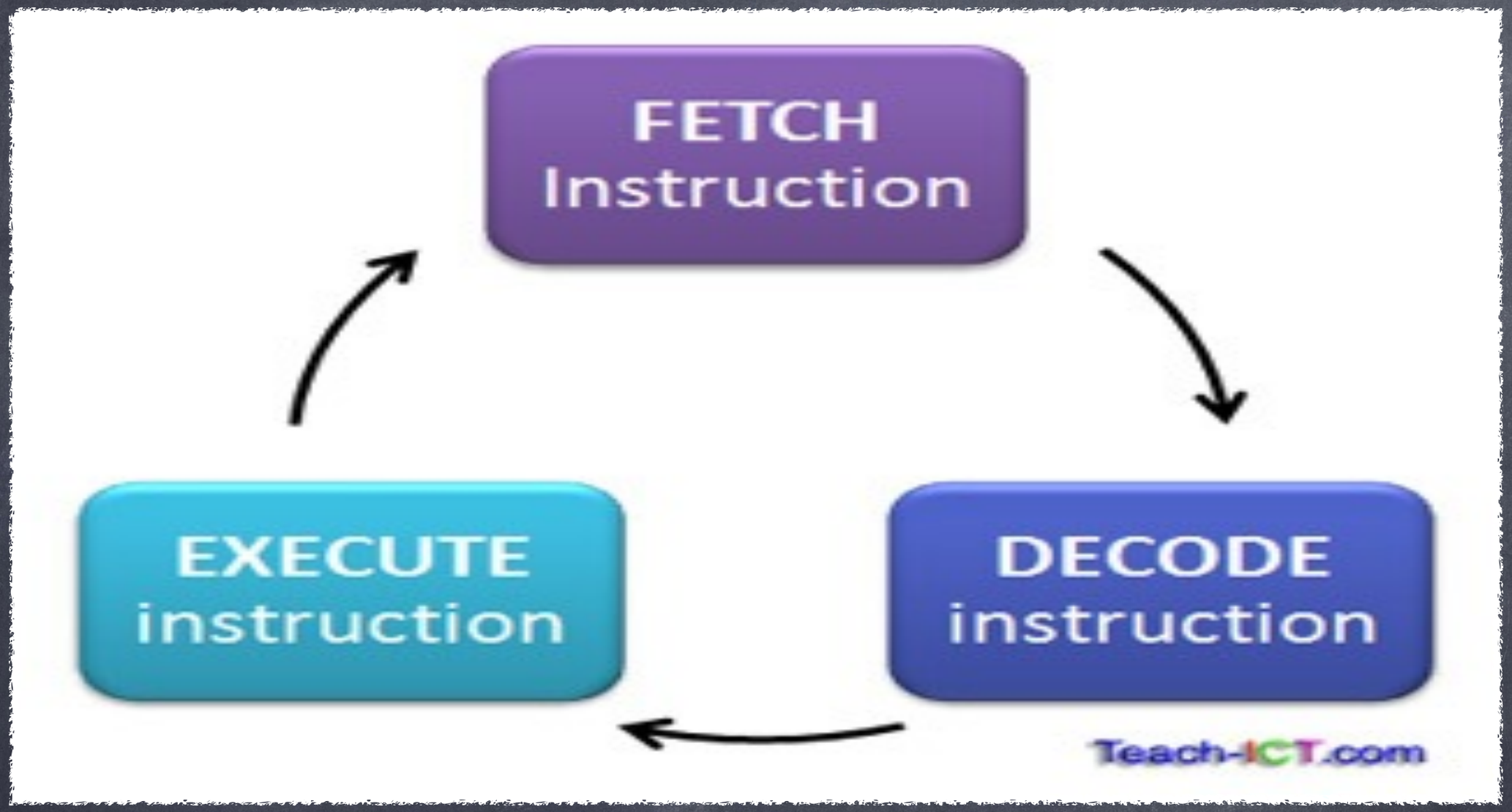

MADE IN TAIWAN
AUDIO
Foxconn
001FD002F5872
001FD028A098
OPTICAL
HDMI
VGA_DVI
ATX_12V_2X4
NB_FAN
PCIEX16_1
PCIEX1_1
GIGABYTE
R60
CPU_FAN
SILENT-PIPE
DX10
PCI Express 2.0
NB_HS
HT3.0
AM2+
DDR2 1066
Ultra Durable
DDR2_1
DDR2_2
DDR2_3
DDR2_4
1R2
PWR_FAN
IDE
ATX

AMD Phenom™ II
HDX840WFK42GM
CADIC AD 1123DPM
9R68653F10517
AMD
© 2008 AMD



NVIDIA


2008 1 25



How Computers Work

It's all a loop

Net Books

www.uglymach

Intel "New Unit of Computing"

NUC

HDMI

SN CVLI249100GV126E
Model: SSDMCEAC120B3
SA: G77568.200
PBA: G77548.200
Capacity: 120GB
RATED DC 3.3V 1A
Made in China
WARRANTY VOID IF REMOVED
www.intel.com
FW: LLKI
Pb-free ZLI
LBA: 234 441 648
WWN: 5001517803D6AC23

Pricing out a Computer

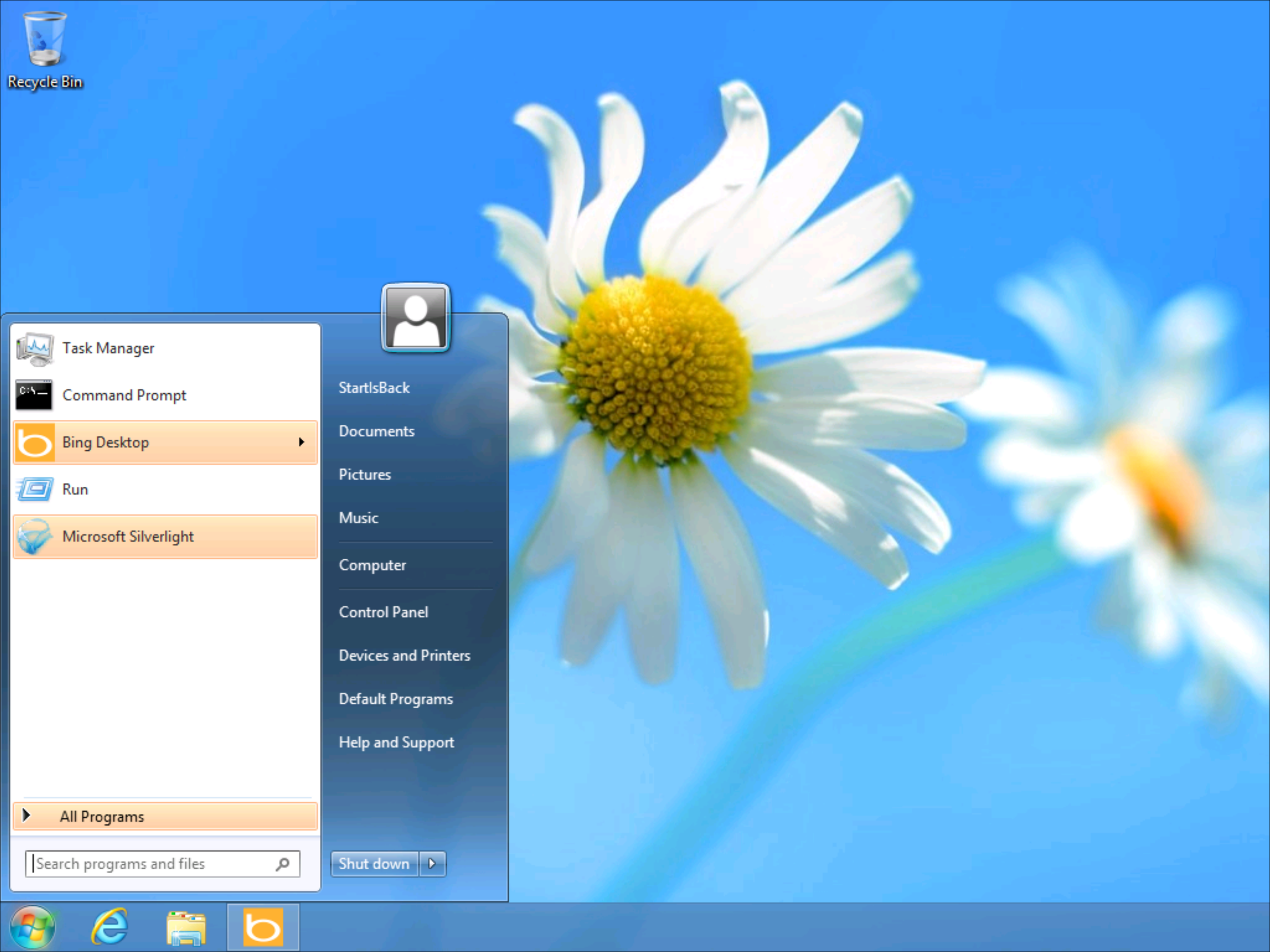
MS Windows!

0	31	2	8086	27C3	14
0	31	3	8086	27DA	14
1	0	0	10DE	00FB	16
3	0	0	14E4	169D	14
4	6	0	1283	8212	12
4	7	0	104C	8025	14

Boot from CD/DVD :
DISK BOOT FAILURE, INSERT SYSTEM

_

Recycle Bin
start
11:20 AM


Recycle Bin
Task Manager
Command Prompt
Bing Desktop
Run
Microsoft Silverlight
All Programs
Search programs and files
StartIsBack
Documents
Pictures
Music
Computer
Control Panel
Devices and Printers
Default Programs
Help and Support
Shut down

Start

Wendy Teo
RE: Dinner tonight? Sounds good. How about the new place with the back patio?
Mail
8
Internet Explorer
Store
Bing
Maps
SkyDrive
Travel
ADATUM
143.71
▲ +0.53 %
+0.76
Soccer practice
Rec center
5:30 PM – 8:00 PM
8
Friday
Photos
Sports
Skype.com
Messaging
71°
Seattle, WA
Mostly sunny 72° / 53°
Weather
Games
Camera
Desktop
Hot air balloon festival takes off in the valley this weekend
Music
Video

Registry Editor

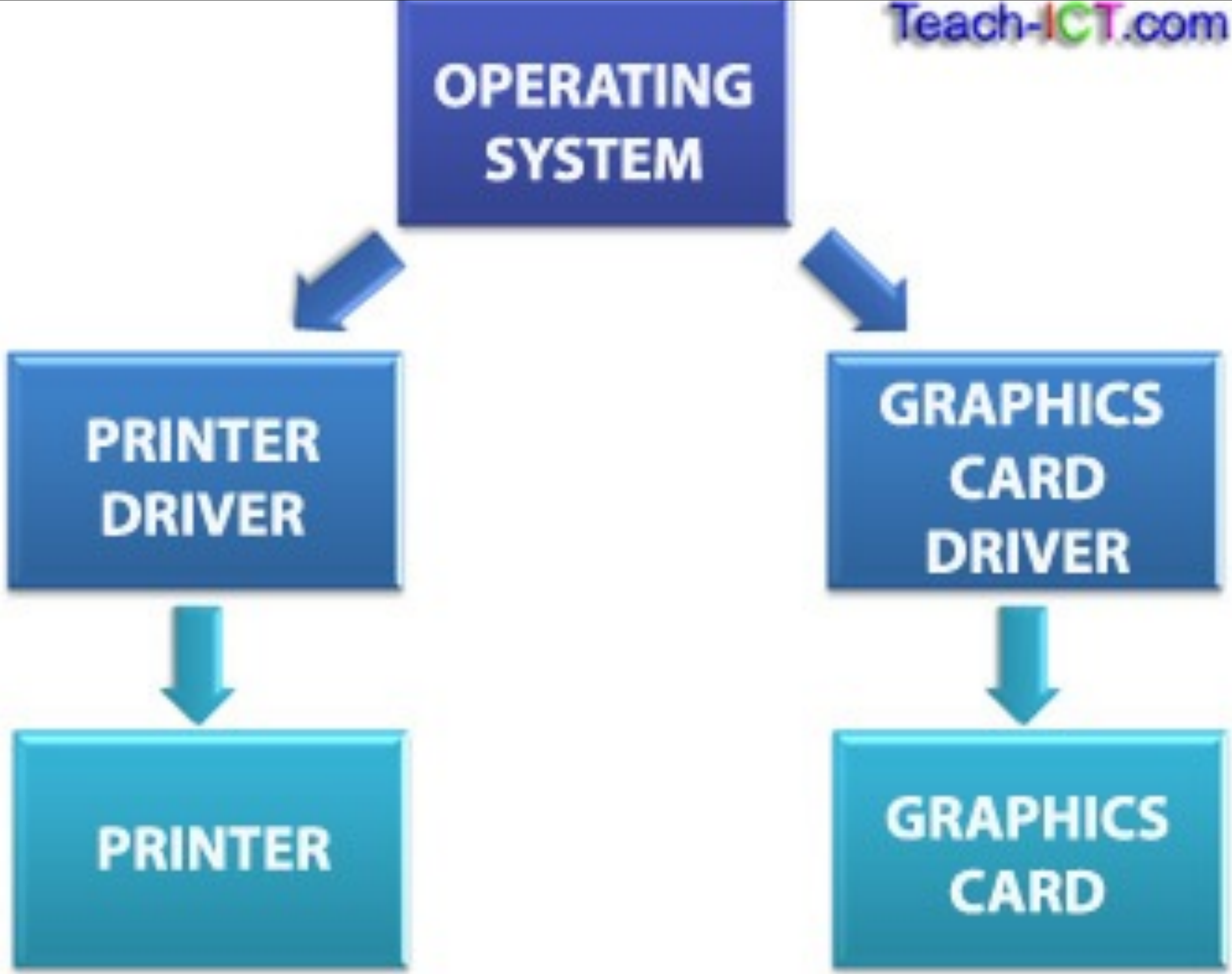
Registry Edit View Favorites Help

- Web Folders
- WebPost
- Win32SDK
- Windows
- Windows CE Develope
- Windows CE Tools
- Windows Messaging S
- Windows NT
  - CurrentVersion
    - Accessibility
    - AeDebug
    - AsrCommands
    - Classes
    - Compatibility
    - Compatibility2
    - Compatibility3

Name	Type	Data
CurrentBuildNumber	REG_SZ	2195
CurrentType	REG_SZ	Uniproces
CurrentVersion	REG_SZ	5.0
DigitalProductId	REG_BINARY	a4 00 00
InstallDate	REG_DWORD	0x3dabf3
PathName	REG_SZ	C:\WINN
ProductId	REG_SZ	51873-00
ProductName	REG_SZ	Microsoft
RegDone	REG_SZ	
RegisteredOrganization	REG_SZ	Saberin c
RegisteredOwner	REG_SZ	Abbas Ri
SoftwareType	REG_SZ	SYSTEM
SourcePath	REG_SZ	H:\I386
SystemRoot	REG_SZ	C:\WINN

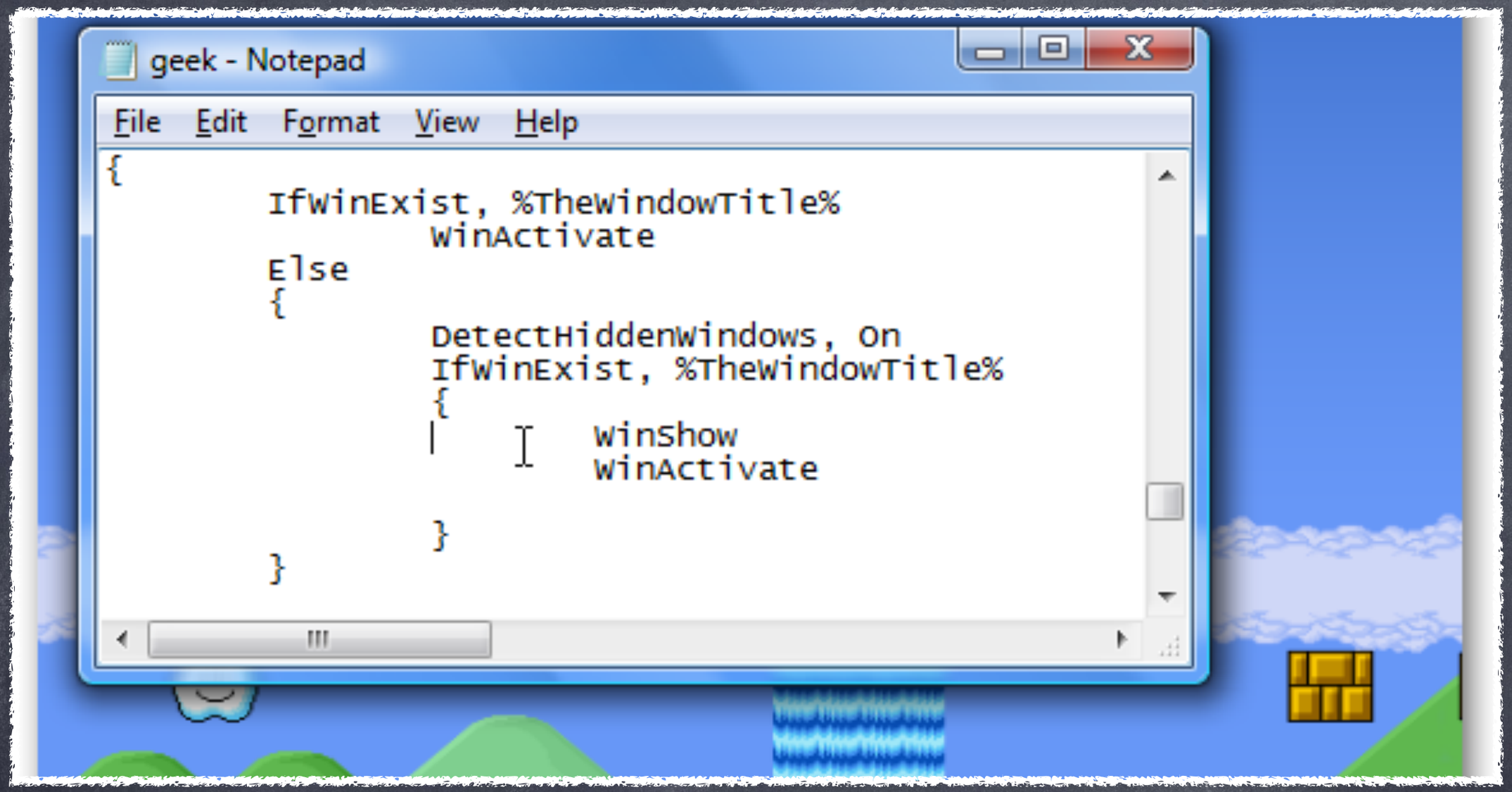
My Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion

Teach-ICT.com



Dependency Hell

Games that require additional software to setup



Autohotkey

our hero

C:\Archivos de programa\AutoHotkey\AutoHotke...

File View Help

Script lines most recently executed (oldest first). Press [F5] to refresh. The seconds elapsed between a line and the one after it is in parentheses to the right (if not 0). The bottommost line's elapsed time is the number of seconds since it executed.

021: Return (5.33)

Press [F5] to refresh.

test.ahk - Bloc de notas

Archivo Edición Formato Ver Ayuda

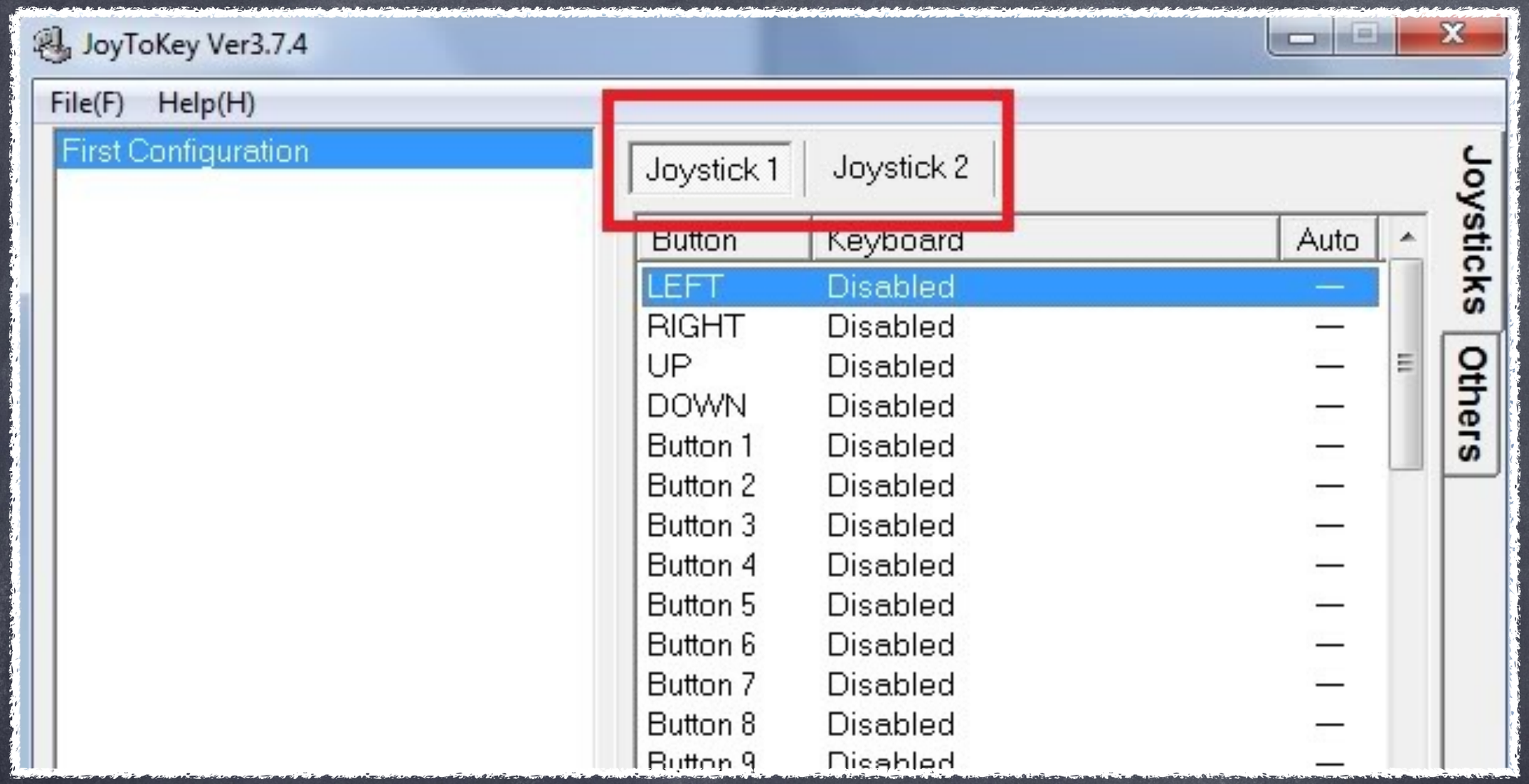
```
;
; Script Function:
;       Template AutoHotkey script.
;
#z::Run www.softonic.com
```

3	*i*	0.1	
4	*N*	10	
5			
6	F/P	2.5937	=(1+G3)^G4
7			
8	P/F	0.3855	=1/((1+G3)^G4)
9			
10	A/F	0.0627	=G3/((1+G3)^G4-1)
11			
12	F/A	15.9374	=((1+G3)^G4-1)/G3
13			
14	A/P	0.1627	=(G3*(1+G3)^G4)/((1+G3)^G4-1)
15			
16	P/A	6.1446	=((1+G3)^G4-1)/(G3*(1+G3)^G4)
17			
18	A/G	3.7255	=((1+G3)^G4-G3*G4-1)/(G3*(1+G3)^G4-G3)
19			
20	P/G	22.8913	=((1+G3)^G4-G3*G4-1)/((G3^2)*(1+G3)^G4)

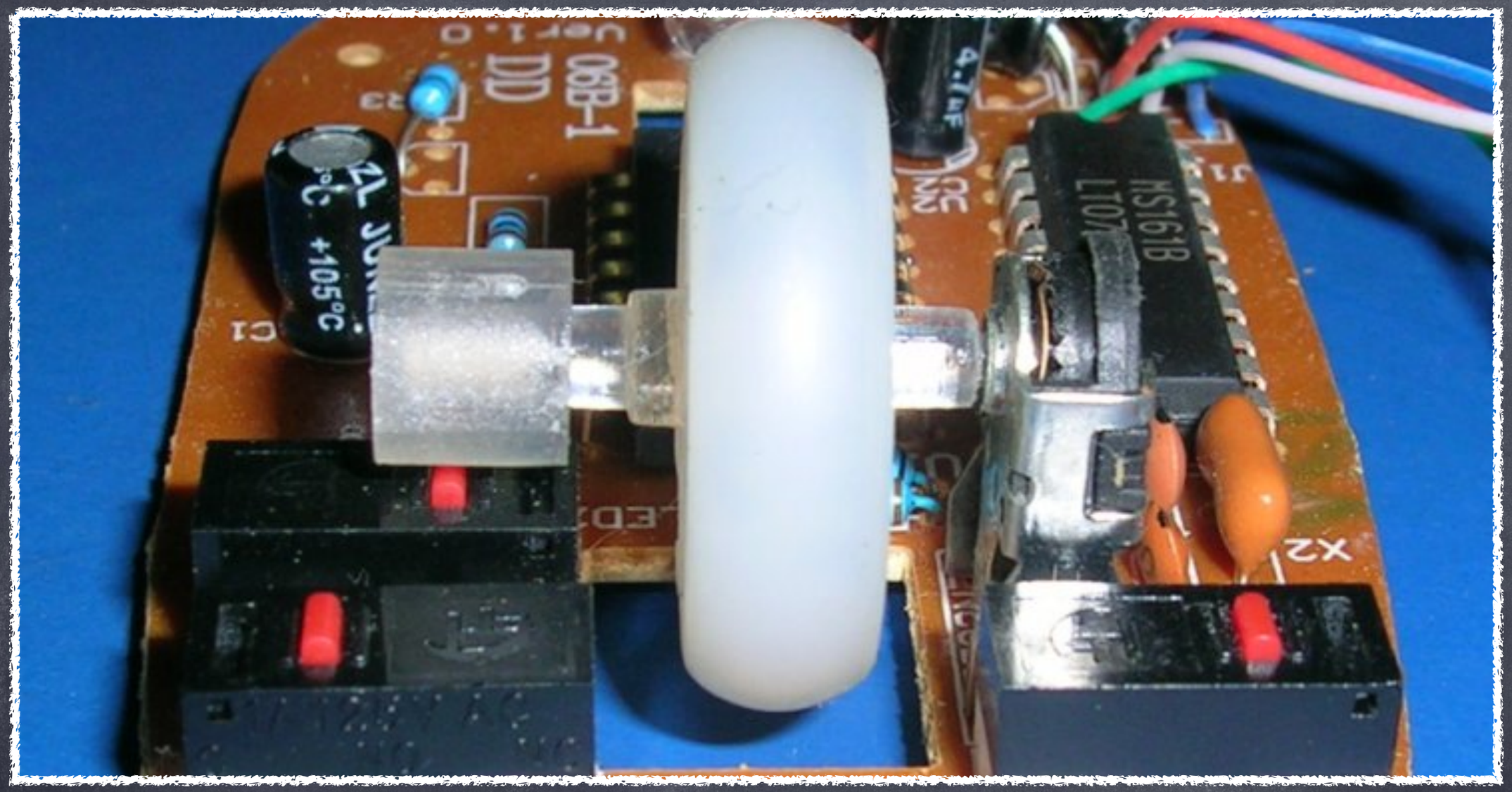
Scripting

Babycastles Syntax

Debugging


JoyToKey Ver3.7.4
File(F)
Help(H)
First Configuration
Joystick 1
Joystick 2
Button
Keyboard
Auto
LEFT Disabled —
RIGHT Disabled —
UP Disabled —
DOWN Disabled —
Button 1 Disabled —
Button 2 Disabled —
Button 3 Disabled —
Button 4 Disabled —
Button 5 Disabled —
Button 6 Disabled —
Button 7 Disabled —
Button 8 Disabled —
Joysticks
Others

Joy2Key



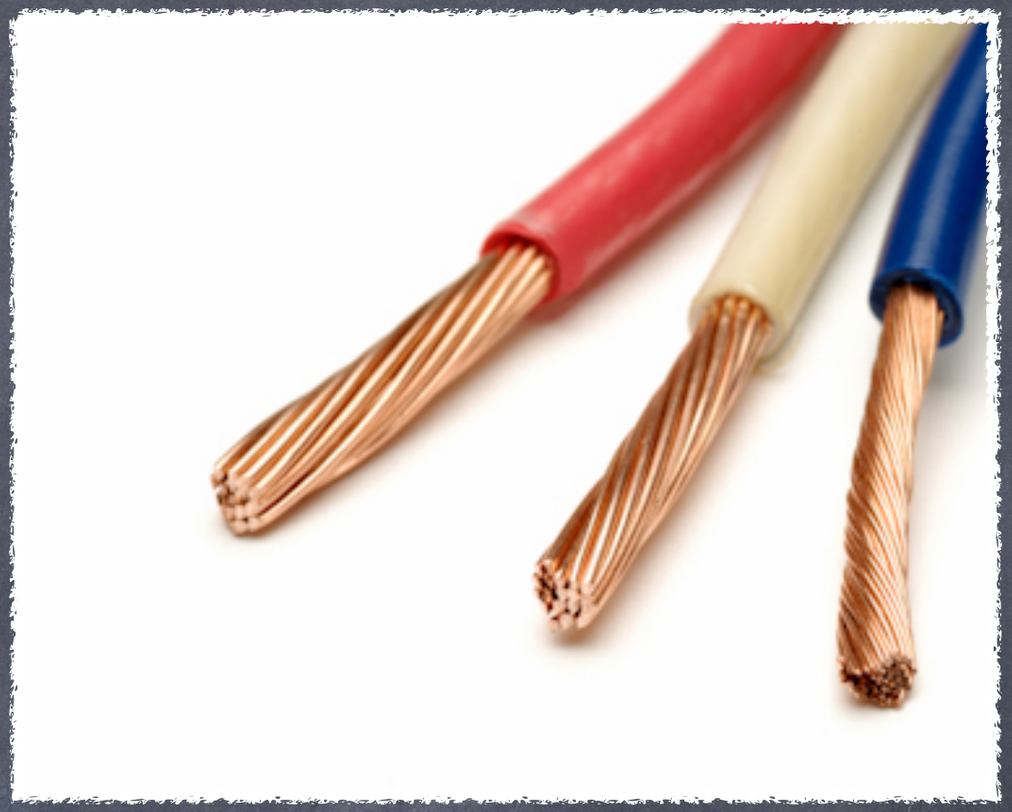
Hardware Hacking

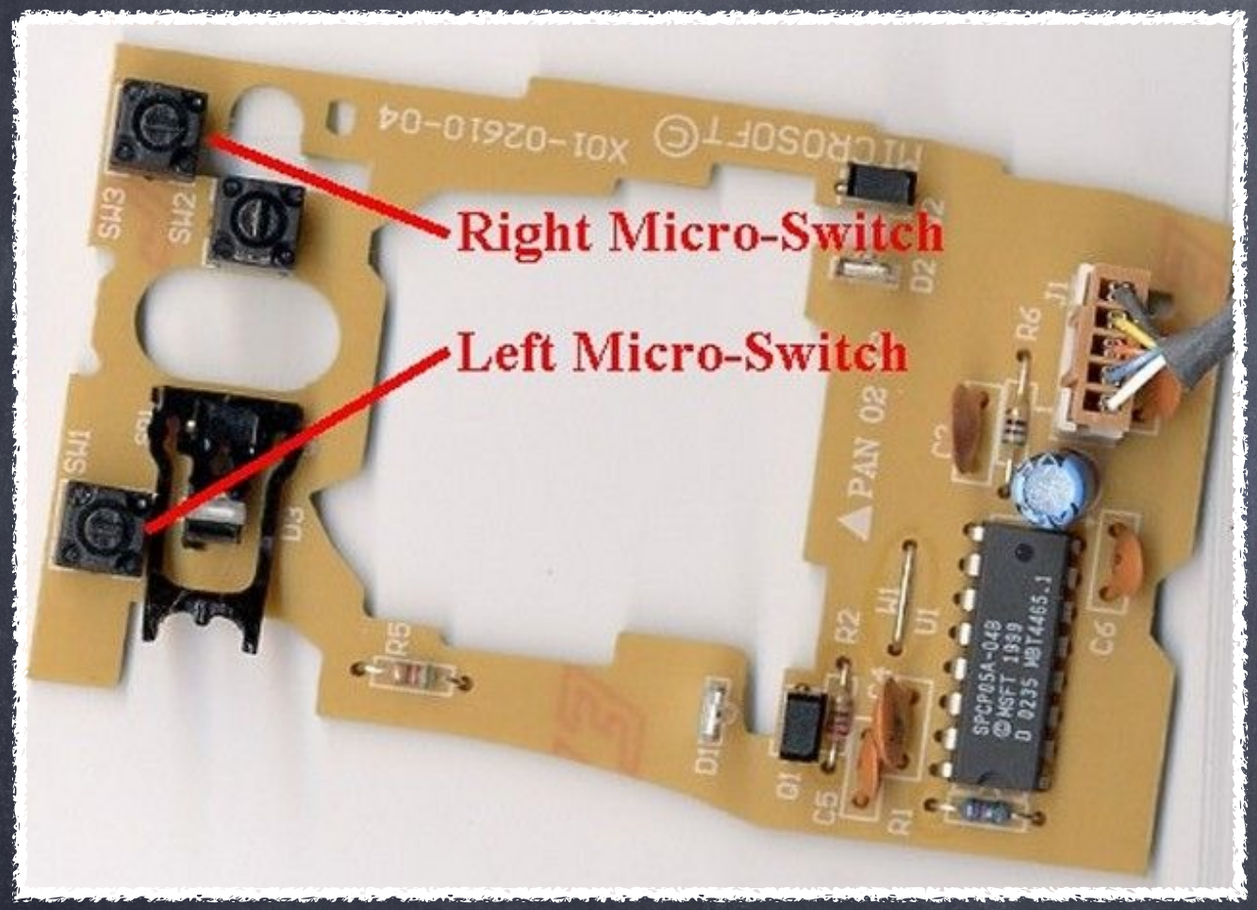
a mouse

PRESS START

OFF
ON

dreamstime.com

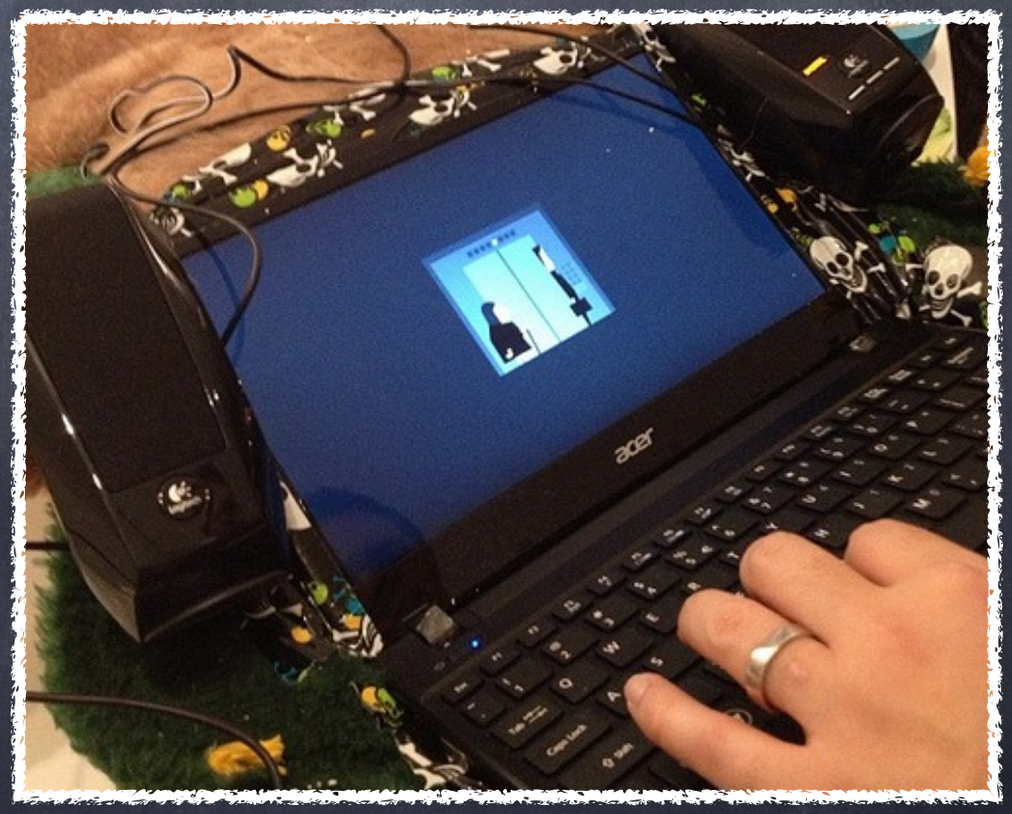



Right Micro-Switch
Left Micro-Switch
MICROSOFT© X01-02610-04
PAN 02
SPCP05A-04B
©MSFT 1999
D 0235 MBT4465.1

Aesthetics

and quality assurance

TRAMPOLINE GOAT
MOVE
RESET


acer

Repair Kit / Triage

Babycast

Review / Check-list

Checklist

- Make sure game boots and resets with button.
- Make sure sound works.
- Make sure game goes fullscreen and task bar and mouse cursor are hidden (if the game does not use a mouse)
- Make sure all controls work. And are mapped correctly.
- Make sure computer can turn off and on
- Make sure background image is set and says "loading".

Topics not covered

- Curations
- Non-Windows based installs
- "Site Specific" installations
- Trollkit